



## *Improving the Quality of Survey Estimates from Longitudinal Studies: An Application to LSMS Panel Surveys*

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*Maria Reyes Retana Torre, Marina Visintini*  
*reproducibility@worldbank.org*  
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This review verifies the reproducibility of the exhibits included in the paper “*Improving the Quality of Survey Estimates from Longitudinal Studies: An Application to LSMS Panel Surveys*”.

### **Contents in this review:**

1. Main findings
2. List of exhibits and reproducibility status
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### *Main findings*

- The code was successfully executed on a new computer after:
  1. Changing the directory path in MASTER.do.
  2. Changing the R path in MASTER.do.
  3. Updating the file path in main.R (2\_Programs folder)
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 7 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors.
- Every exhibit has been reproduced accurately.
- **Reproducibility Summary:**
  - **Data:** All data sources are publicly available but not all are included in the reproducibility package.
  - **Code:** All code files (from cleaning to analysis) are included in the reproducibility package.
  - **Outputs:** All outputs are generated by code included in the reproducibility package.
  - **Reproducibility verification:** Reviewers used data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package. The reviewers did not verify if publicly available data matches the data provided by the authors.
  - **Dependencies environment:** The reviewers created a new environment for dependencies using the latest versions available for each dependency at the moment of the review.

*List of exhibits and reproducibility status*

**Results in the Main Section of the Paper**

- **Figure 2.1** Does not show analysis results.
- **Schema 2.1** Does not show analysis results.
- **Schema 2.2** Does not show analysis results.
- **Figure 3.1** Does not show analysis results.
- **Table 4.1** Does not show analysis results.
- **Table 5.1** Does not show analysis results.
- **Figure 6.1** Reproduced
- **Table 6.2** Does not show analysis results.
- **Table 6.3** Reproduced
- **Table 6.4** Reproduced
- **Table 6.5** Reproduced
- **Table 6.6** Reproduced
- **Table 6.7** Reproduced
- **Table 6.8** Reproduced
- **Table 6.9** Reproduced

*Reproduction Environment*

- Paper exhibits were reproduced in a computer with the following specifications:
  - OS: Windows 10 Enterprise 22H2
  - Processor: Intel(R) Xeon(R) CPU E7- 4860 @ 2.27GHz 2.26 GHz
  - Memory available: 16 GB
  - Software version: R version 4.4.1, Stata 18.0